Iurii Semenov

List of Publications by Year
in descending order

17	978	471509 17	888059 17
papers	citations	h-index	g-index

17	17	17	515
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interference targeting of bipolar nanosecond electric pulses for spatially focused electroporation, electrostimulation, and tissue ablation. Bioelectrochemistry, 2021, 141, 107876.	4.6	22
2	Probing Nanoelectroporation and Resealing of the Cell Membrane by the Entry of Ca2+ and Ba2+ Ions. International Journal of Molecular Sciences, 2020, 21, 3386.	4.1	23
3	Excitation and electroporation by MHz bursts of nanosecond stimuli. Biochemical and Biophysical Research Communications, 2019, 518, 759-764.	2.1	44
4	Excitation of murine cardiac myocytes by nanosecond pulsed electric field. Journal of Cardiovascular Electrophysiology, 2019, 30, 392-401.	1.7	31
5	Electropermeabilization of cells by closely spaced paired nanosecond-range pulses. Bioelectrochemistry, 2018, 121, 135-141.	4.6	26
6	Excitation and injury of adult ventricular cardiomyocytes by nano- to millisecond electric shocks. Scientific Reports, 2018, 8, 8233.	3.3	41
7	Frequency spectrum of induced transmembrane potential and permeabilization efficacy of bipolar electric pulses. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1282-1290.	2.6	26
8	Neuronal excitation and permeabilization by 200-ns pulsed electric field: An optical membrane potential study with FluoVolt dye. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1273-1281.	2.6	51
9	Electroporation by subnanosecond pulses. Biochemistry and Biophysics Reports, 2016, 6, 253-259.	1.3	24
10	Multiple nanosecond electric pulses increase the number but not the size of long-lived nanopores in the cell membrane. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 958-966.	2.6	103
11	Diffuse, non-polar electropermeabilization and reduced propidium uptake distinguish the effect of nanosecond electric pulses. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2118-2125.	2.6	34
12	Ion transport into cells exposed to monopolar and bipolar nanosecond pulses. Bioelectrochemistry, 2015, 103, 44-51.	4.6	47
13	Bipolar nanosecond electric pulses are less efficient at electropermeabilization and killing cells than monopolar pulses. Biochemical and Biophysical Research Communications, 2014, 443, 568-573.	2.1	101
14	Calcium-mediated pore expansion and cell death following nanoelectroporation. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2547-2554.	2.6	82
15	Cancellation of cellular responses to nanoelectroporation by reversing the stimulus polarity. Cellular and Molecular Life Sciences, 2014, 71, 4431-4441.	5.4	108
16	Primary pathways of intracellular Ca2+ mobilization by nanosecond pulsed electric field. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 981-989.	2.6	118
17	Recruitment of the intracellular Ca2+ by ultrashort electric stimuli: The impact of pulse duration. Cell Calcium, 2013, 54, 145-150.	2.4	97